

HOYA NEW

Hoya archboldiana C. Norman 1937



Photo by Monina Siar, UPLB Los Banos, Philippines

Oh There it is !

A pdf publication devoted to the Genus
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Editor: Dale Kloppenburg

Contents

When a species is collected from the wild, I feel it is wise to identify it, propagate it and name it. In this way it will eventually get it into commercial channels, be distributed to all those interested in this genus and thus be preserved. If in the future the species is lost through natural causes or forest destruction it will still be here on earth in your collection.

The following new species are presented in PDF format with ISSN number.
Check posting on my website "<http://.hoyardk.wix.com/Kloppenburg>" under publications.

- 1. Hoya meliflua subsp. taytayensis Kloppenburg**
- 2. Hoya spencii Kloppenburg**
- 3. Hoya linapauliana Kloppenburg**

Hoya meliflua subsp. taytayensis Kloppenburg

sp. PNH #9385 1913

Copies at A/2 BO, US, L, BS

Roll 242-243, 3/31/99 most likely close to *H. meliflua* Merrill

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Hoya meliflua subsp. taytayensis Kloppenburg subsp. nova. Holotypus 9385 (PNH) hic designatus. Similis sp. sed calycis segmentis ciliata et breviora 0.20 cm longis vs. 0.30 cm et corolla diamentro complanatus brevior 1.2 cm contrastre 1 – 1.5 cm. et coronae lobus breviora 0.17 cm contrastere 0.25 cm; pollinia breviora 0.82 mm vs. 0.89 mm et inner apice rotunda non attenuatis, differt. .



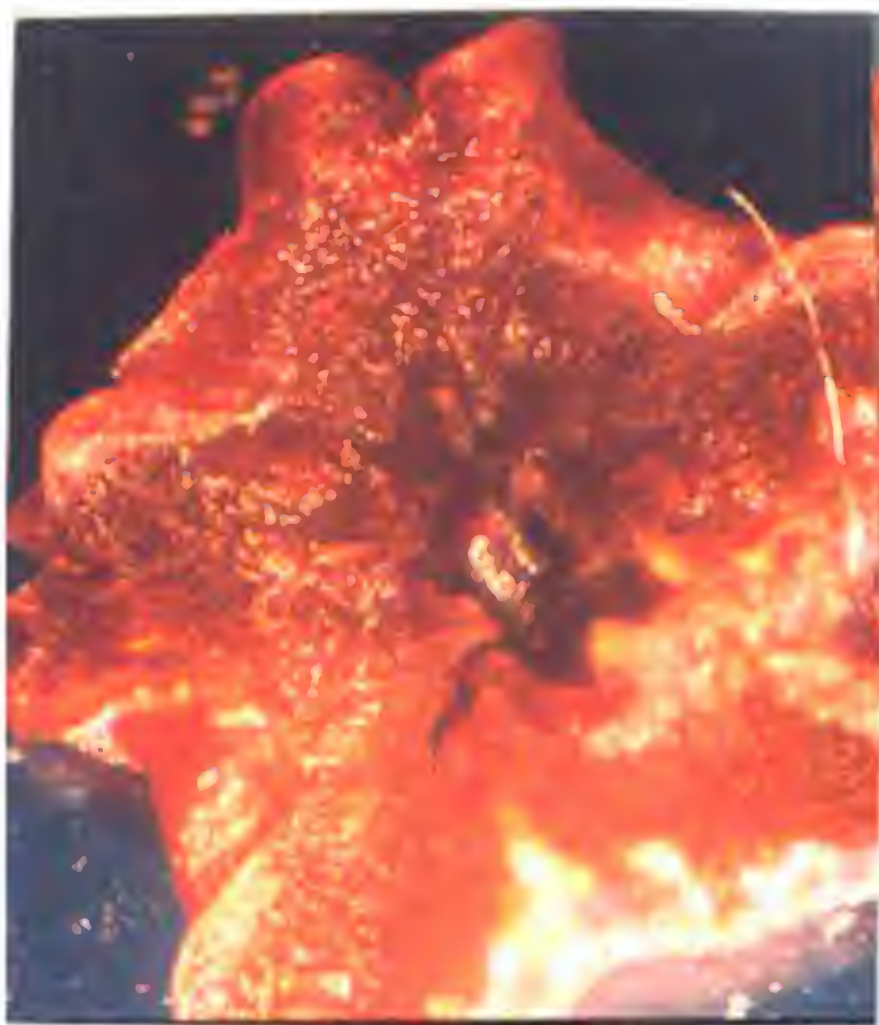
View of the calyx and ovaries with short section of pedicel enlarged about 16x.

Pedicel: 1.45 cm long, terete, glabrous, rusty in color dry, 0.07 cm in diameter

Calyx: lobes are obtuse nearly round, ciliate 0.20 cm long and 0.18 cm at widest, overlap about ½..

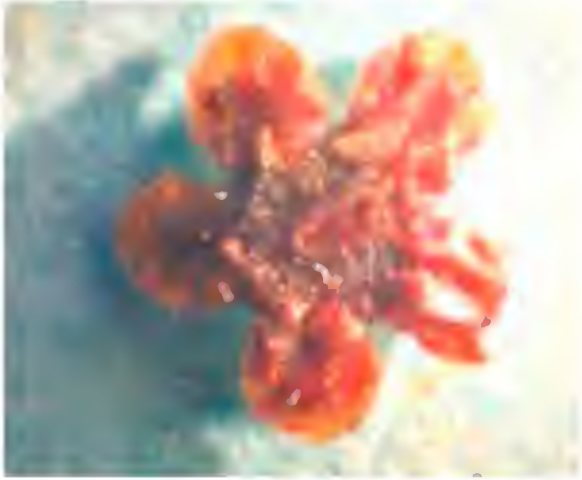
Ovaries: short, domed, glabrous, 0.12 cm tall and 0.07 cm at base pair.

Stylar crown center columnar with capitate head.



Inside view of the corolla enlarged about 16x.. Outside surface glabrous, lobes broad and short. Inside surface thickly pubescent. Apex acute.

Sinus – sinus	0.42 cm
Sinus – center	0.35 cm
Sinus – apex	0.40 cm
Apex – center	0.60 cm
Widest	0.42 cm

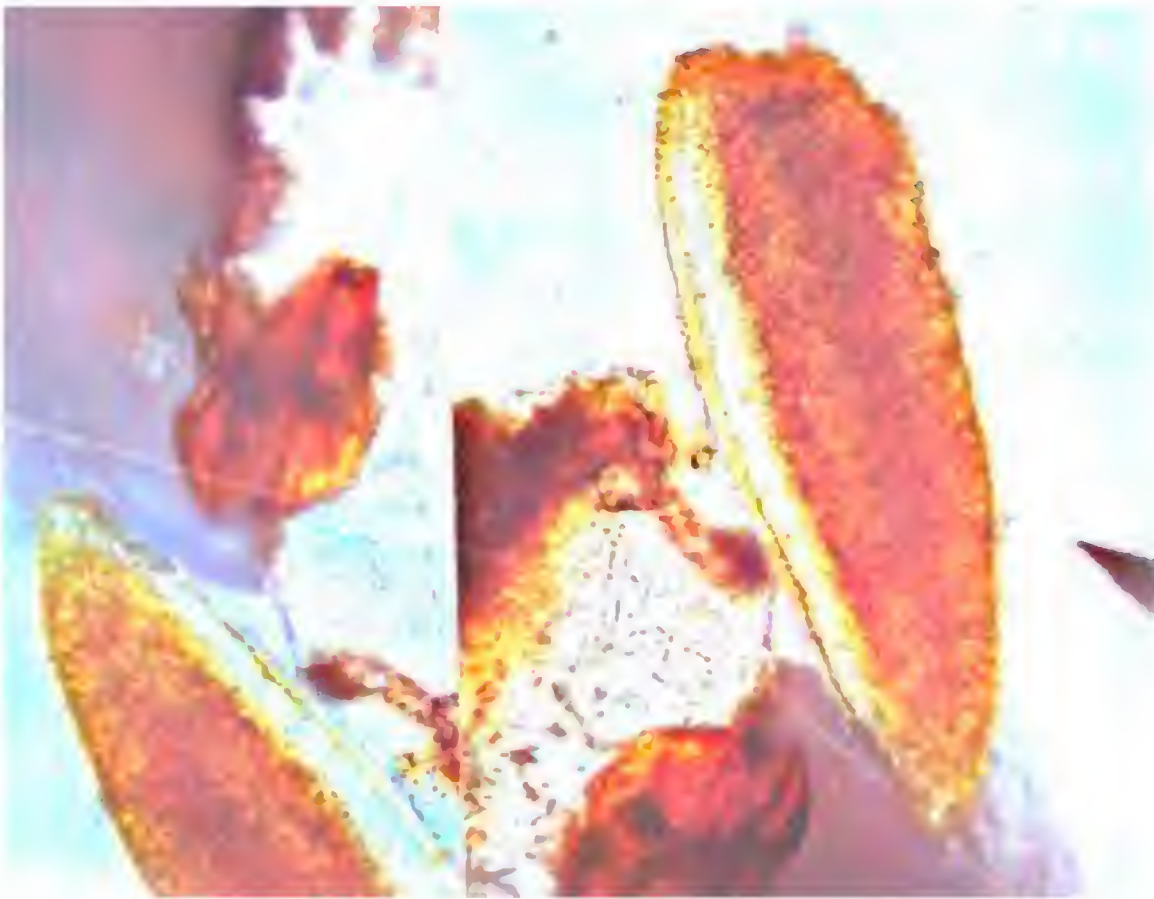


Bottom view of a corona, outer lobes are obtuse, rather thin and raised, grooved, and sides sulcate, Center massive and thickened. Surfaces are glabrous.



Top view of the corona. Anthers are long and membranous, exceed inner coronal lobe by ca. 0.06 cm. Inner lobes spatulate, raised, dorsal cupped with central umbo.

Apex – apex	0.25 cm
Apex – center	0.31 cm
Widest	0.16 cm



Two photos of pollinarium. Pollinia were not attached to the caudicle, some pollinia had germinated (pollen tubes present).

Retinaculum	
length	0.24 mm
shoulder	0.14 mm



Pollinium

Pollinia

length	0.82 mm
widest	0.26 mm

Translator/caudicle type: ls/o

Pollinia inner end type: R

Hoya meliflua (Blanco) Merrill, # 9385 (US)



Hoya spencii Kloppenburg 2018

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Hoya spencii Kloppenburg sp. nova, holotypus 541 (US) hic designatus. This sp. was collected by Glen Spence 19, March 1977 from Mt. Avila, Tutuila, American Samoa, elevation 1000 '. In elevation this species is similar to *Hoya betchei* (Schltr.) Whistler but very different in many respects. Here the leaves are more broad, not as linear with a much more rounder base. Sepals are linear & ciliate and much longer relative to the corolla. The corolla lobes are here more linear and longer, with narrower inner lobes. See details below for more precise measurements.



View of the corolla back with calyx and pedicel showing enlarged about 16x. This is a white cup-shaped flower rather deeply cut vs. Dr. Schlechter's drawing of *H. betchei* on his holotype sheer (B). Sepals are very small only 1/3 way to the corolla sinuses.



Pedicel, calyx with ovaries enlarged about 16x. Pedicels are long and slim 3.0 cm. long 0.11 cm. in diameter, creamy-yellow-white, glabrous, terete. Calyx is small, outside granulate, inside smooth shiny, centrally thickened, edges ciliate.



Top view of the calyx with ovaries enlarged about 16x. The sepals are small, linear to somewhat triangular, apex - base 0.21 cm., apex - center 0.29 cm. and widest 0.13 cm. Edges ciliate and membranous centrally thickened. Ovaries 0.17 cm. tall 0.11 cm. wide at base pair.



Inside view of the corolla enlarged about 16x. This surface is pubescent decreasing toward the center, puberulous under the corona. Center with stellate hair cells pointing centrally. Sinuses somewhat conduplicate.

Sinus - sinus	0.79 cm.
Sinus - apex	0.85 cm.
Sinus - center	0.60 cm.
Apex - center	1.22 cm.
Widest	0.85 cm.



Top view of the corona enlarged about 16x. Glabrous, center raised, inner lobes spatulate, outer lobes obtuse indented.

Apex - apex	0.35 cm.
Apex - center	0.40 cm.
Widest	0.17 cm.
Ret. - ret.	0.11 cm.
Ret - center	0.11 cm.
Anther wing - aw.	0.22 cm.
Aw- - center	0.22 cm.



Top central view of the corona. The anther wings are narrow and protrude a little. Dorsal surface rounded with faint grooves. All surfaces glabrous. Retinacula plainly visible. Lower sides of lobes shelved and these reach the outer apex.



Bottom view of the corona enlarged about 16x. The lobes are channelled with sides diagonally sulcate. Center column is thickened. Scale outer apex obtuse. Anther wing ends narrowly blunt.



Side view of a scale enlarged about 32x. Inner lobe is sharply raised, Anthers exceed the inner apex. Outer apex is blunt obtuse and indented. Anther wings are not deeply scythe shaped. All surfaces are glabrous.



Pollinarium enlarged about 165x. The pollinia are long and narrow, translator arms short triangular. The arms and caudicle seem to enter the retinaculum near its waist.

Pollinia

length	0.72 mm.
widest	0.24 mm.

Retinacula

length	0.26 mm.
Shoulder	0.12 mm.

waist 0.08 mm.
hip 0.10 mm.

Translators
length 0.14 mm.
widest 0.05 mm.

Caudicle bulb diam. 0.07 mm. **Type:** C (clear)

Translator/caudicle Type: ld/o **Retinacula type:** distinct

Pollinia inner end type: RT

Holotype 514 (US)



UNITED STATES

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HOYA BETHUNE AND TUTUILA
T. Green

Herbarium of the Harold L. Lyon Arboretum
PLANTS OF THE HAWAIIAN ISLANDS
SAMOA

Hoya sp.

Along jeep trail leading to Mt. Alava,
Tutuila, Am. Samoa. A vine growing
high into trees. Leaves light green,
thick. Flowers small with white to light
purple corolla lobes; corona entirely
purple.

Elev. 1000'

Coll. Glen Spence

No. 514

Date 19 March 1972

— HERBARIUM OF THE HAROLD L. LYON ARBORETUM

Hoya linapauliana Kloppenburg

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Collected by B. F. Harriail 20 Oct. 1968, Mt. Miquiling on summit of peak two.

Elevation 1114 meters. Flower white, leaf very small.

Roll 89

Hoya linapauliana Kloppenburg, sp. nova, holotypus 19258 (CAHUP) hic designatus. Similis *Hoya odorata* Schlechter sed differt: pedicellis 1.9 cm longis vs. 2.0 cm, et calycis segmentis triangularibus, apicie acutis etium margine sparsium ciliates et 0.16 cm longis vs. lanceolato-oblongis obtusis, margine sparsim ciliatis, 0.2 cm longis; et corolla 1.8 cm diametiente vs. 1.7 cm. Coronie lobus non horizontalibus sed et erexit centrum, et 0.6 cm longis vs. 0.4 cm differt. Pollinara quanto alia. See below. Schlechter's Type sheet with drawing at end.

Initially it would appear that this sp. would be a subspecies of *Hoya odorata*, however the coronal arrangement is so starkly different as to negate that assumption. Here the coronal lobes ascend toward the center in at least a 45 degree angle and are spatulate not acute and I see no umbo on the dorsal surface. The stark difference here and with the pollinaria leads me to place it in a new specie category.

I have named this sp. after Lina Paul, originally from San Francisco CA now living in Escondido, California and she is an avid Hoya person.

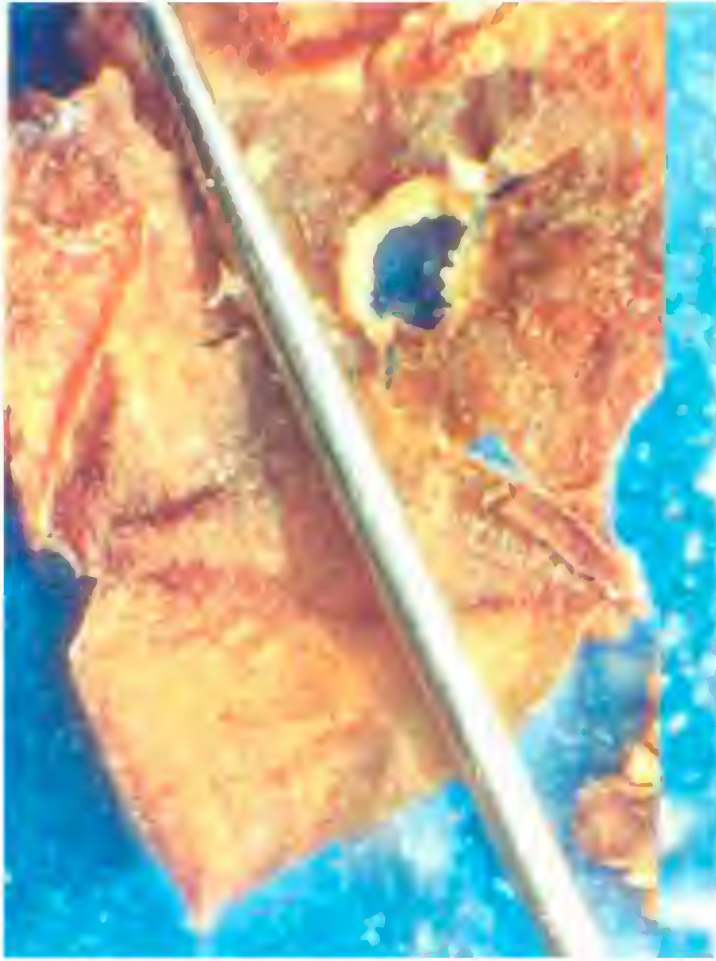


Pedicel calyx and ovaries side view. Enlarged about 8x

Pedicel: 1.9 cm long 0.06 cm in diameter. Surface with sparse pubescence enlarging toward the calyx.

Calyx: sepals triangular, 0.16 cm long and widest 0.16 cm edge wit a few cilia, edges hyaline, Inside glabrous and slick., no overlap at base, no ligules observed.

Ovaries: very stubby 0.11 cm tall and abase pair 0.16 cm wide.



Inside surface of the corolla, this surface is pubescent. Lobe apex acute, broad in the center.

Sinus – sinus	0.55 cm
Apex – center	0.90 cm
Widest	0.60 cm



Corona. Inner lobes raised and spatulate, dorsal surface cupped, outer lobe obtuse, anther wings with ends thickened and extending a little beyond the sinuses.

Apex – apex	0.60 cm
Widest	0.24 cm



Side view of a coronal scale. Anther right above developing into the thickened yellow wing below. Scale thin even when soaked in Kew solution, Inner lobe long and narrow, outer lobe with rounded apical area less so. Anther wing very thick at the apical, lower area.

Pollinarium enlarged about 165x. Pollinia wide and short, retinaculum with distinct head, waste area.



Pollinium		
length		0.51 mm
widest		0.21 mm

Retinaculum		
length		0.19 mm
shoulder		0.12 mm
waist		0.08 mm
hip		0.10 mm
ext.		0.05 mm

Translators		
length		0.10 mm
widest		0.04 mm

Pollinia inner ends: T

Retinacula, with broad hips.

Compare the drawing on this sheet with the pictures above.
Hoya odorata Schlechter, 1906, Type # 3202 (B)

Retinacula, with broad hips.

As Hoya odorata Schlechter 1906
CAHUP #19258



Compare the drawing on this sheet with the pictures above.
Hoya odorata Schlechter, 1906, Type # 3202 (B)

